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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,224	04/16/2004	Johannes Petrus Martinus Bernardus Vermeulen	081468-0309212	7269
909	7590	01/11/2006	EXAMINER	
PILLSBURY WINTHROP SHAW PITTMAN, LLP			MULLINS, BURTON S	
P.O. BOX 10500			ART UNIT	PAPER NUMBER
MCLEAN, VA 22102			2834	

DATE MAILED: 01/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/825,224

Applicant(s)

VERMEULEN ET AL.

Examiner

Burton S. Mullins

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~ The MAILING DATE of this communication appears on the cover sheet with the correspondence address ~

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 08 November 2005.
- 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-22 is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 April 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Drawings*

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, “the combined crossover section heights of the crossover sections in the crossover area equal at most a height of the second coil outside the at least one crossover area” must be shown or the features canceled from the claims. No new matter should be entered.

Fig.5 shows a height “h1” which is described as the height of the coil assembly 12 (paragraph 53). The crossover section heights of each coil 6,7,8 are denoted “h2”. The “height of the second coil outside the at least one crossover area” is not denoted. Presumably this height is the height of the “long legs” or “main current conductor sections” 7A and 7B in Figs.4-5 (taking coil 7 as the second coil). Since the specification paragraph 53 does not equate the “height h1” of the coil assembly 12 with the height of each main current conductor section 6A,6B,7A,7B,8A,8B outside the crossover areas 6C,6D,7C,7D,8C,8D, it is assumed that these heights could vary. Thus, the claimed relationship including the “height of the second coil outside the at least one crossover area” is not clearly shown.

Regarding applicant’s comments disputing the objection, applicant states that the prior art drawing Fig.3 shows “staggered, or stepped” crossover portions 6C-8C while the invention as shown in Fig.5 “includes a first side S1 and a second side S2 and represents a rectangular configuration when viewed from the side” since “crossover sections 6C, 6D, 7C, 7D, 8C and 8D present a rectangular configuration, not a stepped configuration.” This is not understood

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because the crossover sections of the invention are also “staggered, or stepped” since they overlap partially. See specification p.12, paragraph 51. Further, it is not clear what applicant means by “view[ing] from the side”. When viewed from along a transverse- or longitudinal-axis (relative to the coils) the shape of both the prior art and applicant’s crossover sections present a rectangular configuration.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

*Allowable Subject Matter*

2. The following is an examiner's statement of reasons for allowance: The prior art does not teach the claimed coil assembly including the relationship that "the combined crossover section heights of the crossover sections in the crossover area equal at most a height of the second coil outside the at least one crossover area." With reference to Figs.4-5, the crossover sections of the first coil 6 are denoted 6C and 6D, while the crossover sections of the second coil 7 are denoted 7C and 7D. The height of each crossover section 6C/6D and 7C/7D are given in Fig.5 as  $h_2$ . The sections of first and second coils 6 and 7 outside the crossover areas refer to "the main current conductor sections" 6A,6B and 7A,7B. The claimed relationship of "the combined crossover section heights of the crossover sections in the crossover area" means that the value given by  $h_2 + h_2$  is "equal at most a height of the second coil outside the at least one crossover part," i.e., the height of the section 7A,7B.

The prior art Fig.3 shows that each section 6A,6B,7A,7B,8A,8B has a height less than the combined height of any two crossover sections 6C,6D,7C,7D,8C,8D. Similarly, in Korenaga Fig.5, the combined height of each crossover area (at the coil ends) is greater than the height of any one coil in the central portion, outside the crossover areas. In Phillips, Fig.2 the crossover areas have a height denoted by 51. This height is greater than the height "d" denoted in Fig.3 of any one coil outside the crossover area.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the

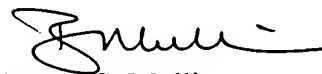
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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

3. This application is in condition for allowance except for the formal matters noted above. Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213. A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Burton S. Mullins whose telephone number is 571-272-2029. The examiner can normally be reached on Monday-Friday, 9 am to 5 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



Burton S. Mullins  
Primary Examiner  
Art Unit 2834

bsm  
03 January 2006